



*ZFW*  
PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 3, 2005.*

Trudi Thompson  
Trudi Thompson

Applicant : William R. McGrath Confirmation No. 3598  
Application No. : 10/632,347  
Filed : August 1, 2003  
Title : REMOTE-SENSING METHOD AND DEVICE

Grp./Div. : 3736  
Examiner : Michael C. Astorino

Docket No. : 50679/DJB/C766  
Customer No. : 23363

### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97(c) AND 1.17(p)

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Post Office Box 7068  
Pasadena, CA 91109-7068  
February 3, 2005

Commissioner:

In compliance with the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the Manual of Patent Examining Procedure §§ 609 and 707.05(b), enclosed is FORM PTO/SB/08A/B listing the references that are known to applicant. Copies of each of the listed references are enclosed. This filing is timely because it is made during one of the periods described in 37 CFR § 1.97(b).

It is respectfully requested that the listed references be considered in the examination of this application and identified on the list of references cited on the patent issuing for this application. Applicant also requests that an initialed copy of FORM PTO/SB/08A/B be entered

**Application No. 10/632,347**

in the application file and returned to applicant with the next communication from the Office in accordance with MPEP § 609.

Respectfully submitted,  
CHRISTIE, PARKER & HALE, LLP

By Cynthia A. Bonner  
Cynthia A. Bonner  
Reg. No. 44,548  
626/795-9900

DJB:tt

TXT IRV1081500.1-\* 01/28/05 8:13 AM



FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449A/B

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

|                        |                     |
|------------------------|---------------------|
| Attorney Docket Number | 50679/RAG/C766      |
| Application Number     | 10/632,347          |
| Filing Date            | August 1, 2003      |
| Applicant(s)           | William R. McGrath  |
| Group Art Unit         | 3736                |
| Examiner Name          | Michael C. Astorino |

**U.S. PATENT DOCUMENTS**

| EXAMINER INITIALS | Cite No. <sup>1</sup> | DOCUMENT NUMBER<br>Number - Kind Code <sup>2</sup> (If Known) | PUBLICATION DATE<br>MM-DD-YYYY | NAME OF PATENTEE |
|-------------------|-----------------------|---|--------------------------------|------------------|
|                   |                       |   |                                |                  |
|                   |                       |   |                                |                  |

**FOREIGN PATENT DOCUMENTS**

| EXAMINER INITIALS | Cite No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup><br>(If Known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | T <sup>6</sup><br>( <input checked="" type="checkbox"/> ) |
|-------------------|-----------------------|---|--------------------------------|--|---|
|                   |                       |   |                                |  |   |
|                   |                       |   |                                |  |   |

**OTHER DOCUMENTS**

|                   |                       |  |
|-------------------|-----------------------|--|
| EXAMINER INITIALS | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.   |
|                   |                       | CLARK et al., "Medical Instrumentation Application And Design", John Wiley & Sons, Inc., undated, Third Edition, Section 4.6 through 6.6, pp. 139-259, Cover page (1).   |
|                   |                       | GEDDES et al., "Principles Of Applied Biomedical Instrumentation", Wiley-Interscience Publication, Third Edition, undated, pp. 600-613, cover page (1).  |
|                   |                       | IEEE Standards Coordinating Committee 28, "IEEE Standard For Safety Levels With Respect To Human Exposure To Radio Frequency Electromagnetic Fields, 3kHz to 300 GHz", IEEE Std. C95.1, April 16, 1999, pp. 1-73, Cover pg. (1), Abstract (2 pgs), Introduction (6 pgs), Table of Contents (1 pg). |
|                   |                       | BEHNIA et al., "Closed-Loop Feedback Control Of Phased-Array Microwave Heating Using Thermal Measurements From Magnetic Resonance Imaging", Concepts in Magnetic Resonance (Magnetic Resonance Engineering ), Vol. 15, No. 1, 2002, pp. 101-110.   |
|                   |                       | OSEPCHUK, J., "How Safe Are Microwaves And Solar Power From Space?", IEEE Microwave Magazine, December 2002, pp. 58-64.  |
|                   |                       | YAN et al., "Theoretical Analysis Of The Biological Thermal Effect Of Millimeter Waves In Layered-Dielectric-Slabs", International Journal of Infrared and Millimeter Waves, Vol. 24, No. 5, May 2003, pp. 763-772.  |

|                    |  |                    |  |
|--------------------|--|--------------------|--|
| EXAMINER SIGNATURE |  | DATE<br>CONSIDERED |  |
|--------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.pto.gov](http://www.pto.gov) or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

DJB/tt

**INFORMATION DISCLOSURE**

**STATEMENT BY APPLICANT**

(use as many sheets as necessary)

|                        |                     |
|------------------------|---------------------|
| Attorney Docket Number | 50679/RAG/C766      |
| Application Number     | 10/632,347          |
| Filing Date            | August 1, 2003      |
| Applicant(s)           | William R. McGrath  |
| Group Art Unit         | 3736                |
| Examiner Name          | Michael C. Astorino |

**OTHER DOCUMENTS**

| EXAMINER INITIALS | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|-------------------|-----------------------|--|
|                   |                       | VIJAYALAXMI et al., "Genotoxic Potential Of 1.6 GHz Wireless Communication Signal: <i>In Vivo</i> Two-Year Bioassay", Radiation Research, Vol. 159, 2003, pp. 558-564.   |
|                   |                       | BIT-BABIK et al., "Estimation Of The SAR In The Human Head And Body Due To Radiofrequency Radiation Exposure From Handheld Mobile Phones With Hands-Free Accessories", Radiation Research, Vol. 159, 2003, pp. 550-557.                      |
|                   |                       | THALAU et al., "Temperature Changes In Chicken Embryos Exposed To A Continuous-Wave 1.25 GHz Radiofrequency Electromagnetic Field", Radiation Research, Vol. 159, 2003, pp. 685-692.   |
|                   |                       | HIRATA et al., "Correlation Of Maximum Temperature Increase and Peak SAR In The Human Head Due to Handset Antennas", IEEE Transactions On Microwave Theory and Techniques, Vol. 51, No. 7, July 2003, pp. 1834-1841.                         |
|                   |                       | LIN et al., "Wearable Sensor Patches For Physiological Monitoring", JPL Inventor's Report, NASA Case No. 0246 2065I, NASA Tech Brief Vol. 25, No. 2, pp. 1-3, cover pgs (2).   |
|                   |                       | PATTERSON, R. "Fundamentals Of Impedance Cardiography", IEEE Engineering In Medicine and Biology Magazine, March 1989, pp. 35-38.  |
|                   |                       | WANG et al., "Multiple Sources Of The Impedance Cardiogram Based On 3-D Finite Difference Human Thorax Models", IEEE Transactions on Biomedical Engineering, Vol. 42, No. 2, February 1995, pp. 141-148.                                     |
|                   |                       | PATTERSON et al., "Impedance Cardiography Using Band And Regional Electrodes In Supine, Sitting, And During Exercise", IEEE Transactions on Biomedical Engineering, Vol. 38, No. 5, May 1991, pp. 393-400                                    |
|                   |                       | JOSSINET, J., "The Impedivity Of Freshly Excised Human Breast Tissue", Physiol. Meas., Vol. 19, 1998, pp. 61-75.   |
|                   |                       | MOHAPATRA et al., "Blood Resistivity And Its Implications For The Calculation Of Cardiac Output By The Thoracic Electrical Impedance Technique", Intens. Care Med., Vol. 3, 1977, pp. 63-67.   |
|                   |                       | KING R., "Comments On "Biological Effects Of Radio-Frequency/Microwave Radiation"", IEEE Transactions on Microwave Theory and Techniques, Vol. 50, No. 8, August 2002, pp. 2032-2033.  |
|                   |                       | KING, R., "Electric Fields Induced In Cells In The Bodies Of Amateur Radio Operators By Their Transmitting Antennas", IEEE Transactions On Microwave Theory and Techniques, Vol. 48, No. 11, November 2000, pp. 2155-2158                    |

| EXAMINER SIGNATURE | DATE CONSIDERED |
|--------------------|-----------------|
|                    |                 |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.pto.gov](http://www.pto.gov) or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

|  |                        |                     |
|--|------------------------|---------------------|
| FORM PTO/SB/08A/B (10-01)<br>Substitute for PTO-1449A/B<br><br><b>INFORMATION DISCLOSURE</b><br><br><b>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) | Attorney Docket Number | 50679/RAG/C766      |
|  | Application Number     | 10/632,347          |
|  | Filing Date            | August 1, 2003      |
|  | Applicant(s)           | William R. McGrath  |
|  | Group Art Unit         | 3736                |
|  | Examiner Name          | Michael C. Astorino |

| OTHER DOCUMENTS   |                       |  |
|-------------------|-----------------------|--|
| EXAMINER INITIALS | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.           |
|                   |                       | KING, R., "Electric Current And Electric Field Induced In The Human Body When Exposed To An Incident Electric Field Near The Resonant Frequency", IEEE Transactions on Microwave Theory And Techniques, Vol. 48, No. 9, September 2000, pp. 1537-1543. |
|                   |                       | JOHNSON et al., "Nonionizing Electromagnetic Wave Effects In Biological Materials And Systems", Proceedings of the IEEE, Vol. 60, No. 6, June 1972, pp. 692-719.   |
|                   |                       | LOHMAN et al., "A Digital Signal Processor For Doppler Radar Sensing Of Vital Signs", 2001 Proceedings of the 23rd Annual EMBS International Conference, October 25-28, 2001, Istanbul, Turkey, pp. 3359-3362  |
|                   |                       | GUILLEN et al., "Design Of A Prototype For Dynamic Electrocardiography Monitoring Using GSM Technology: GSM-Holter", 2001 Proceedings of the 23rd Annual EMBS International Conference, October 25-28, 2001, Istanbul, Turkey, pp. 3956-3959           |
|                   |                       | MARBÁN, E., "Cardiac Channelopathies", Insight Review Articles, undated, 6 pgs.  |
|                   |                       | BORIC-LUBECKE et al, "Wireless House Calls: Using Communications Technology For Health Care And Monitoring", IEEE Microwave Magazine, September 2002, pp. 43-48  |
|                   |                       | HOLDEN, A., "A Last Wave From The Dying Heart", Nature, Vol. 392, March 5, 1998, pp. 20-21.  |
|                   |                       | ABUBAKAR et al., "Imaging Of Biomedical Data Using A Multiplicative Regularized Contrast Source Inversion Method", IEEE Transactions on Microwave Theory and Techniques, Vol. 50, No. 7, July 2002, pp. 1761-1771.                                     |
|                   |                       | YU et al., "Can Millimeter Waves Generate Electroporation?", International Journal of Infrared and Millimeter Waves, Vol. 23, No. 8, August 2002, pp. 1261-1269.   |
|                   |                       | YU et al., "Discussion About The Ratio Method For Measuring Millimeter Wave Absorption By Biological Entities", International Journal of Infrared and Millimeter Waves, Vol. 23, No.7, July 2002, pp. 997-1006   |
|                   |                       | MCGILL et al., "A Model Of The Muscle Action Potential For Describing The Leading Edge, Terminal Wave, And Slow Afterwave", IEEE Transactions on Biomedical Engineering, Vol. 48, No. 12, December 2001, pp. 1357-1365                                 |
|                   |                       | ADAIR et al., "Biological Effects Of Radio-Frequency/Microwave Radiation", IEEE Transactions on Microwave Theory and Techniques, Vol. 50, No. 3, March 2002, pp. 953-962   |

|                    |  |                    |  |
|--------------------|--|--------------------|--|
| EXAMINER SIGNATURE |  | DATE<br>CONSIDERED |  |
|--------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.pto.gov](http://www.pto.gov) or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

DJB/tt

|  |                        |                     |
|--|------------------------|---------------------|
| FORM PTO/SB/08A/B (10-01)<br>Substitute for PTO-1449A/B<br><br><b>INFORMATION DISCLOSURE</b><br><br><b>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) | Attorney Docket Number | 50679/RAG/C766      |
|  | Application Number     | 10/632,347          |
|  | Filing Date            | August 1, 2003      |
|  | Applicant(s)           | William R. McGrath  |
|  | Group Art Unit         | 3736                |
|  | Examiner Name          | Michael C. Astorino |

| OTHER DOCUMENTS   |                       |  |
|-------------------|-----------------------|--|
| EXAMINER INITIALS | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|                   |                       | EMILI et al., "Computation Of Electromagnetic Field Inside A Tissue At Mobile Communications Frequencies", IEEE Transactions on Microwave Theory and Techniques, Vol. 51, No. 1, January 2003, pp. 178-186                                   |
|                   |                       | LIN, J., "Noninvasive Microwave Measurement Of Respiration", Proceedings of the IEEE, October 1975, p. 1530.   |
|                   |                       | LEE et al., "Magnetic Gradiometer Based On A High-Transition Temperature Superconducting Quantum Interference Device For Improved Sensitivity Of A Biosensor", Applied Physics Letters, Vol. 81, No. 16, October 14, 2002, pp. 3094-3096.    |
|                   |                       | PEDERSEN et al., "An Investigation Of The Use Of Microwave Radiation For Pulmonary Diagnostics", IEEE Transactions on Biomedical Engineering, September 1976, pp. 410-412  |
|                   |                       | CHEN et al., "An X-Band Microwave Life-Detection System", IEEE Transactions on Biomedical Engineering, Vol. BME-33, No. 7, July 1986, pp. 697-701  |
|                   |                       | LIN et al., "Microwave Apexcardiography", IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-27, No. 6, June 1979, pp. 618-620   |
|                   |                       | RHEE, et al., "An Ultra-Low Power, Self-Organizing Wireless Network And Its Applications To Non-Invasive Biomedical Instrumentation", IEEE/Sarnoff Symposium on Advances in Wired and Wireless Communications, March 13, 2002, pp. 64-67     |
|                   |                       | PRANCE, et al., "An Ultra-Low-Noise Electrical-Potential Probe For Human-Body Scanning", Meas. Sci. Technol., Vol. 11, 2000, pp. 291-297   |
|                   |                       | CLIPPINGDALE et al., "Ultrahigh Impedance Capacitively Coupled Heart Imaging Array", Rev. Sci. Instrum., Vol. 65, No. 1, January 1994, pp. 269-270   |
|                   |                       | STANLEY et al., "Pressure-Jump Relaxation Apparatus Using Bipolar-Pulse Conductivity Detection", Rev. Sci. Instrum., Vol. 65, No. 1, January 1994, pp. 199-203   |
|                   |                       | HARLAND et al., "Electric Potential Probes - New Directions In the Remote Sensing Of The Human Body", Meas. Sci. Technol., Vol. 13, 2002, pp. 163-169  |
|                   |                       | HARLAND et al., "Remote Detection of Human Electroencephalograms using Ultrahigh Input Impedance Electric Potential Sensors", Applied Physics Letters, Vol. 81, No. 17, October 21, 2002, pp. 3284-3286                                      |

|  |  |                    |  |
|--|--|--------------------|--|
| EXAMINER SIGNATURE   |  | DATE<br>CONSIDERED |  |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="http://www.pto.gov">www.pto.gov</a> or MPEP 901.4. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached. |  |                    |  |

|  |                        |                     |
|--|------------------------|---------------------|
| FORM PTO/SB/08A/B (10-01)<br>Substitute for PTO-1449A/B<br><br><b>INFORMATION DISCLOSURE</b><br><br><b>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) | Attorney Docket Number | 50679/RAG/C766      |
|  | Application Number     | 10/632,347          |
|  | Filing Date            | August 1, 2003      |
|  | Applicant(s)           | William R. McGrath  |
|  | Group Art Unit         | 3736                |
|  | Examiner Name          | Michael C. Astorino |

| OTHER DOCUMENTS   |                       |  |
|-------------------|-----------------------|--|
| EXAMINER INITIALS | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|                   |                       | LUDWIG, H., "Technical Note: Heart- Or Respiration-Rate Calculator", Med. & Biol. Eng. & Comput., Vol. 15, 1977, pp. 700-702   |
|                   |                       | SPINELLI et al., "A Novel Fully Differential Biopotential Amplifier With DC Suppression", IEEE Transactions on Biomedical Engineering, Vol. 51, No. 8, August 2004, pp. 1444-1448  |
|                   |                       | LEBEDEVA, A., "The Use Of Millimeter Wavelength Electromagnetic Waves In Cardiology", Critical Reviews <sup>TM</sup> in Biomedical Engineering, Vol. 28, Nos. 1 and 2, 2000, pp. 339-347   |
|                   |                       | TAYLOR et al., "Precision Digital Instrument for Calculation Of Heart Rate and R-R Interval", IEEE Transactions On Biomedical Engineering, May 1975, pp. 255-257   |
|                   |                       | DROITCOUR et al, "21.1 0.25 $\mu$ m CMOS and BiCMOS Single-Chip Direct-Conversion Doppler Radars For Remote Sensing Of Vital Signs", ISSCC 2002, Session 21, TD: Sensors and Microsystems, February 6, 2002, 2 pgs.                          |
|                   |                       | DROITCOUR et al., "Range Correlation Effect On ISM Band I/Q CMOS Radar For Non-Contact Vital Signs Sensing", IEEE MTT-S Digest, 2003, pp. 1945-1948  |
|                   |                       | DROITCOUR et al., "A Microwave Radio For Doppler Radar Sensing Of Vital Signs", undated, 4 pgs.  |
|                   |                       | HOBBIE R., "The Electrocardiogram As An Example Of Electrostatics", AJP, Vol. 41, June 1973, pp. 824-831.  |
|                   |                       | HOBBIE, R., "Improved Explanation Of The Electrocardiogram", Reprinted from American Journal of Physics, Vol. 52, 1984, pp. 704-705, Energetics, pp. 234-235   |
|                   |                       | LIEBE, H., "Mini-Review: Atmospheric EHF Window Transparencies Near 35, 90, 140 And 220 GHz", IEEE Transactions On Antennas And Propagation, Vol. AP-31, No. 1, January 1983, pp. 127-135.   |
|                   |                       | BYRD, R., "NPO-30697: Non-Contact Electrocardiograph Machine", Opportunity Assessment Prepared for NASA Jet Propulsion Laboratory, December 6, 2002, 40 pgs.   |
|                   |                       | MCNAMEE et al, "Short Communication: No Evidence for Genotoxic Effects from 24 H Exposure Of Human Leukocytes To 1.9 Radiofrequency Fields", Radiation Research, Vol. 159, 2003, pp. 693-697   |

TXT IRV1083126.1-\*01/28/05 8:03 AM

|                    |  |                    |  |
|--------------------|--|--------------------|--|
| EXAMINER SIGNATURE |  | DATE<br>CONSIDERED |  |
|--------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.pto.gov](http://www.pto.gov) or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

DJB/tt